Fingerprint Lock

(6000 Series)

USER MANUAL

JIANGMEN KEYU INTELLIGENCE CO., LTD

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6000RL-F

6000BP-F

I. TECHNICAL SPECIFICATION

(1) Electrical parameters

1) Working Voltage：6V DC
2) Alarming Voltage：≤5V
3) Working Current：20～260 mA
4) Static Current：＜10 uA

(2) Function Index

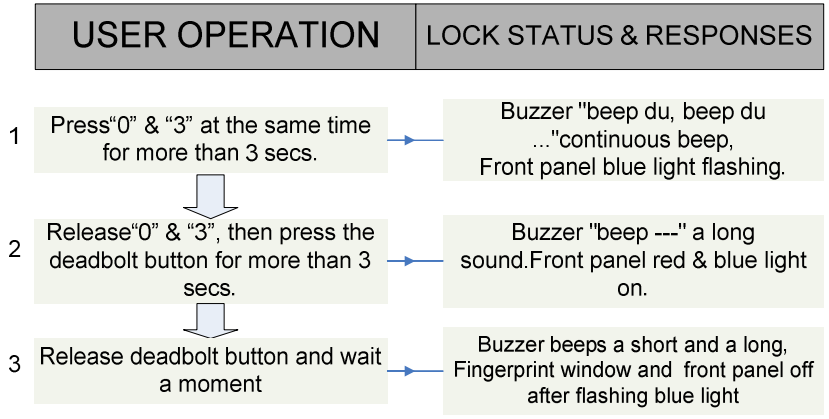
1) Fingerprint enrollment method: Optical sensor
2) Sensor Resolution：500DPI
3) Fingerprint Recognition Time: ＜1.5s
4) FRR (False Rejection Rate)：≤1%
5) FAR (False Acceptance Rate)：≤0.0001%
6) Max master fingerprint: 5pcs
7) Max master password：5pcs
8) Max normal user fingerprint：50pcs
9) Max normal user password：50pcs
10) Unlocking mode：3
11) Password Length：10 digits
12) Password: Operation forbidden after 6 times failed trial
13) Fingerprint: Operation forbidden after 20 times failed trial
14) Operation forbidden time: 3mins
15) Lock delay time: 5 secs.

II. OPERATION INSTRUCTION

1. Reset

RESET means to clear all the information of the lock, after RESET the lock, you should register new users for the lock.

How to reset:

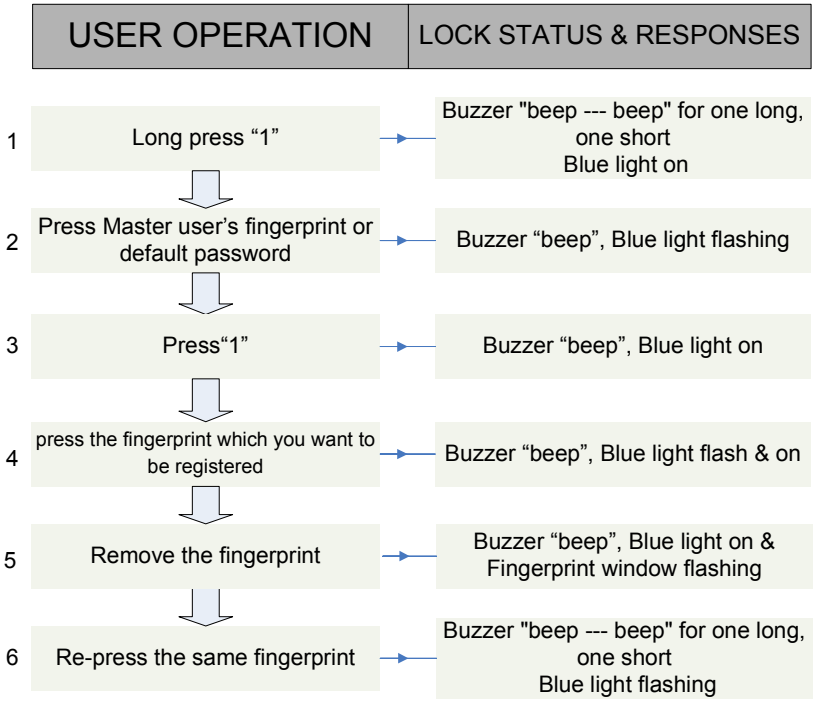

USER OPERATION
LOCK STATUS & RESPONSES
1
Press“0” & “3” at the same time for more than 3 secs.
Buzzer "beep du, beep du ..."continuous beep, Front panel blue light flashing.
2
Release“0” & “3”, then press the deadbolt button for more than 3 secs.
Buzzer "beep ---" a long sound.Front panel red & blue light on.
3
Release deadbolt button and wait a moment
Buzzer beeps a short and a long, Fingerprint window and front panel off after flashing blue light

2. Add User

You can...

- add Master user's fingerprint
- add Master user's password
- add Normal user's fingerprint
- add Normal user's password

(1) Add Master user's fingerprint


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "1"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press Master user's fingerprint or default password
Buzzer "beep", Blue light flashing
3
Press"1"
Buzzer "beep", Blue light on
4
press the fingerprint which you want to be registered
Buzzer "beep", Blue light flash & on
5
Remove the fingerprint
Buzzer "beep", Blue light on & Fingerprint window flashing
6
Re-press the same fingerprint
Buzzer "beep --- beep" for one long, one short
Blue light flashing

Note:

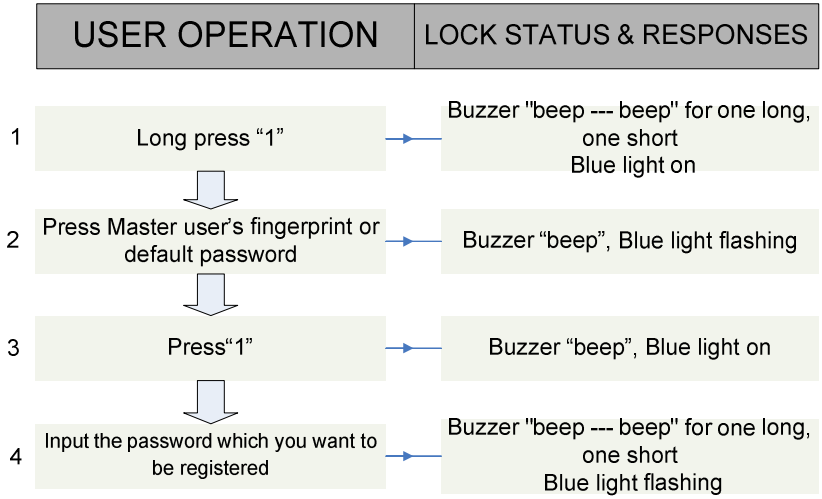
1) When you first time to add the user, please use the default password (1111111111#), after you registered the first Master user, you should use the registered Master user's fingerprint. After master user fingerprint,

default password will be invalid.

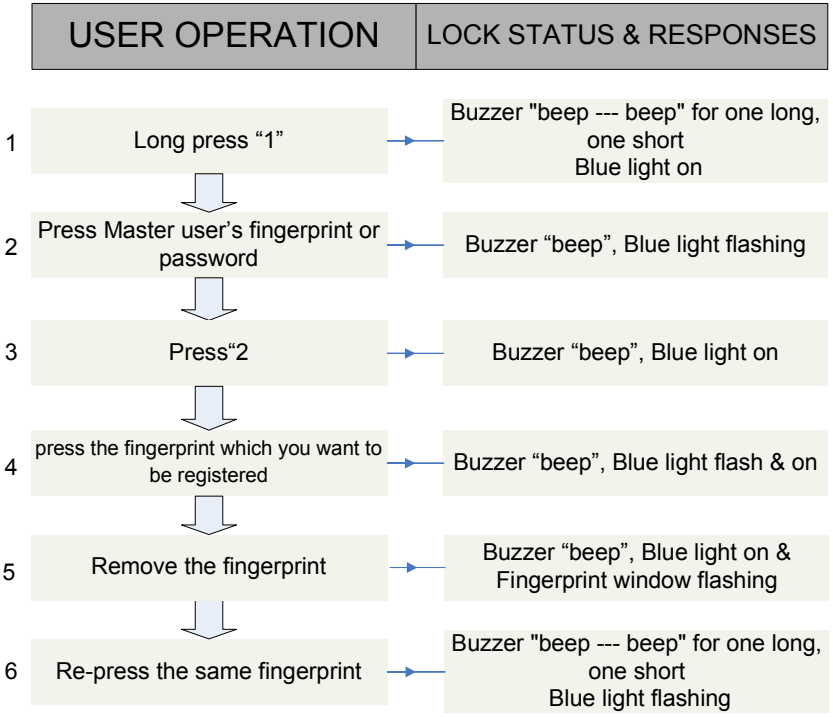
2) After finish register the fingerprint, you can continue to add other fingerprints during the blue light flashing.

3) If hear four beeps during the operation, it means the operation is incorrect, please repeat the above steps until success.

(2) Add Master user's password


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "1"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press Master user's fingerprint or default password
Buzzer "beep", Blue light flashing
3
Press"1"
Buzzer "beep", Blue light on
4
Input the password which you want to be registered
Buzzer "beep --- beep" for one long, one short
Blue light flashing

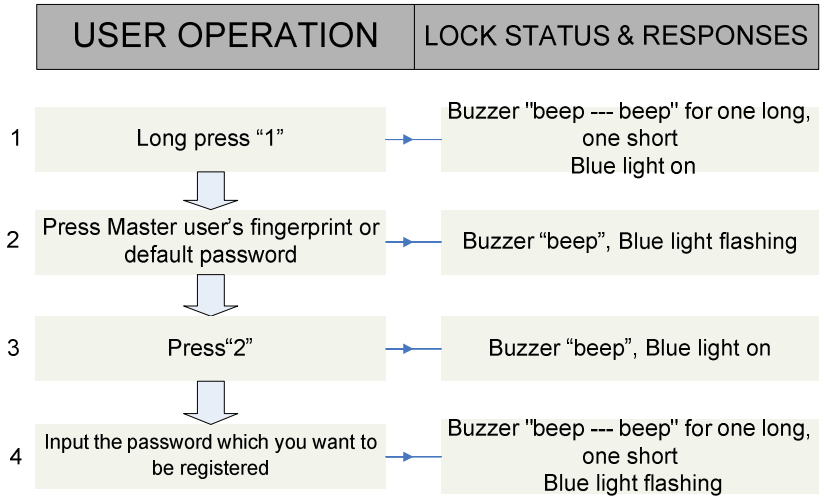
(3)Add Normal user's fingerprint


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "1"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press Master user's fingerprint or password
Buzzer "beep", Blue light flashing
3
Press"2
Buzzer "beep", Blue light on
4
press the fingerprint which you want to be registered
Buzzer "beep", Blue light flash & on
5
Remove the fingerprint
Buzzer "beep", Blue light on & Fingerprint window flashing
6
Re-press the same fingerprint
Buzzer "beep --- beep" for one long, one short
Blue light flashing

Note:

1) Please add the Master user's fingerprint before you add the Normal user's fingerprint.
2) After finish register the fingerprint, you can continue to add other fingerprints during the blue light flashing.
3) If hear four beeps during the operation, it means the operation is incorrect, please repeat the above steps until success.

(4) Add Normal user's password


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "1"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press Master user's fingerprint or default password
Buzzer "beep", Blue light flashing
3
Press"2"
Buzzer "beep", Blue light on
4
Input the password which you want to be registered
Buzzer "beep --- beep" for one long, one short
Blue light flashing

Note:

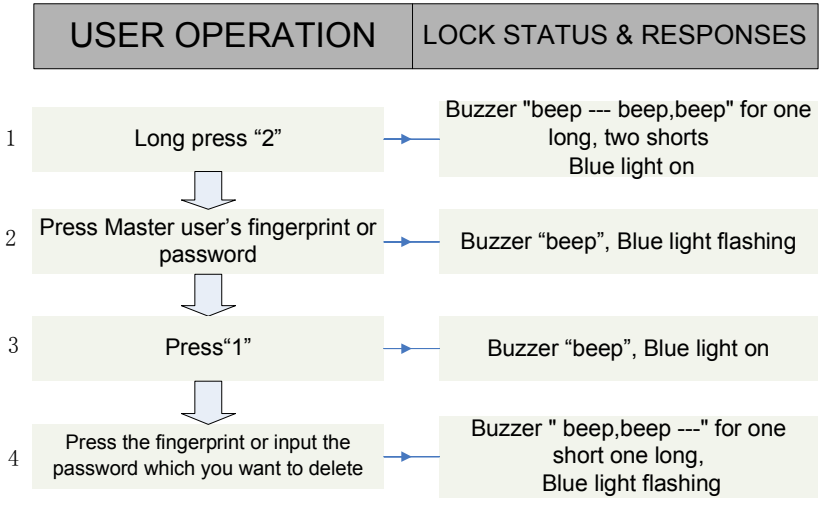
1) Please add the Master user's password before you add the Normal user's password.
2) After finish register the password, you can continue to add other passwords during the blue light flashing.
3) If hear four beeps during the operation, it means the operation is incorrect, please repeat the above steps until success.

3. Delete User

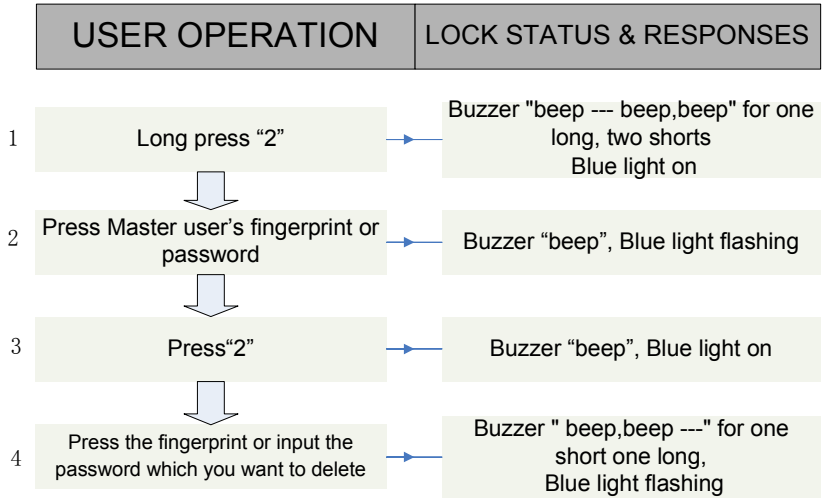
You can...

- delete single Master user
- delete single Normal user
- delete all the Master users
- delete all the Normal users
- browser delete users

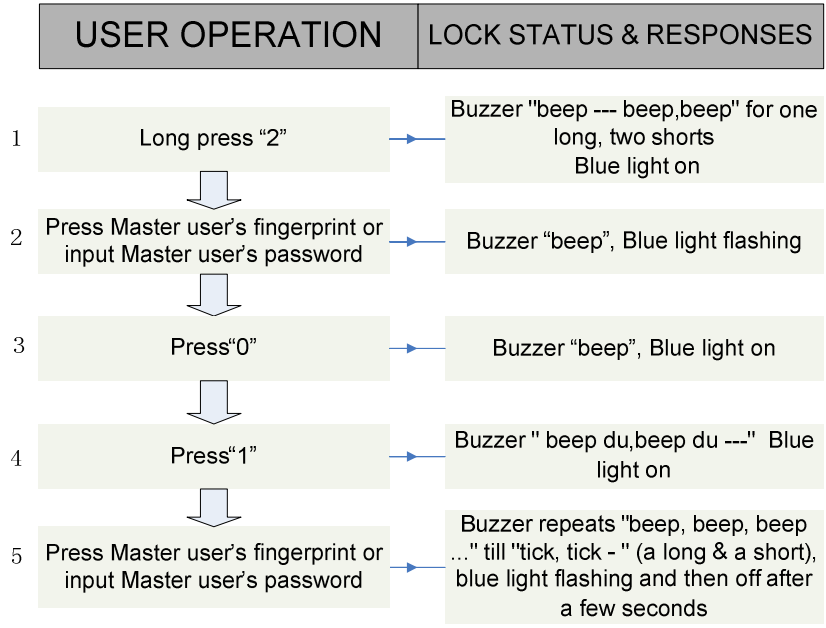
(1) Delete single Master user


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “2”
Buzzer "beep --- beep,beep" for one long, two shorts
Blue light on
2
Press Master user’s fingerprint or password
Buzzer “beep”, Blue light flashing
3
Press“1”
Buzzer “beep”, Blue light on
4
Press the fingerprint or input the password which you want to delete
Buzzer " beep,beep ---" for one short one long,
Blue light flashing

(2) Delete single Normal user


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “2”
Buzzer "beep --- beep,beep" for one long, two shorts
Blue light on
2
Press Master user’s fingerprint or password
Buzzer “beep”, Blue light flashing
3
Press“2”
Buzzer “beep”, Blue light on
4
Press the fingerprint or input the password which you want to delete
Buzzer " beep,beep ---" for one short one long,
Blue light flashing

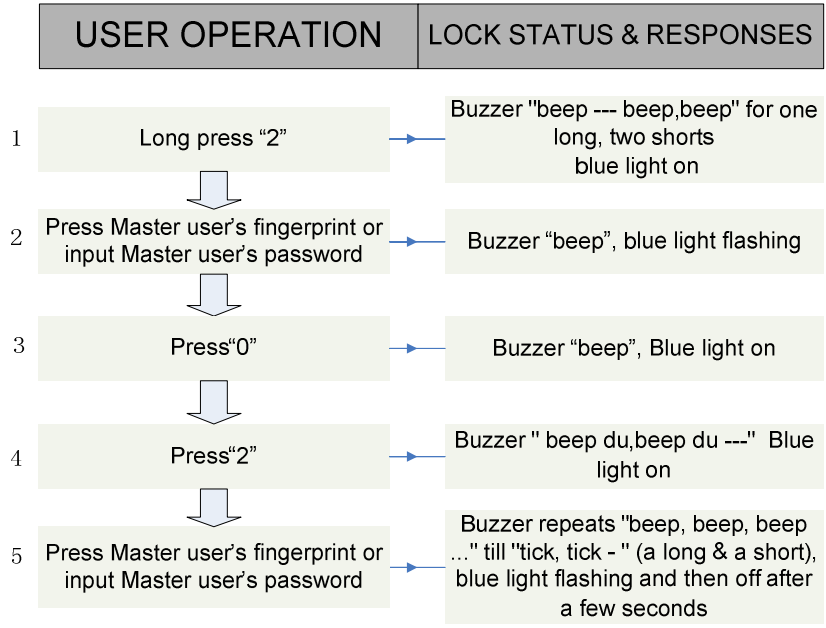
(3) Delete all the Master users


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “2”
Buzzer "beep --- beep,beep" for one long, two shorts
Blue light on
2
Press Master user’s fingerprint or input Master user’s password
Buzzer “beep”, Blue light flashing
3
Press“0”
Buzzer “beep”, Blue light on
4
Press“1”
Buzzer " beep du,beep du ---" Blue light on
5
Press Master user’s fingerprint or input Master user’s password
Buzzer repeats "beep, beep, beep ..." till "tick, tick - " (a long & a short), blue light flashing and then off after a few seconds

Note：

1) “Tick~. Tick” a long and a short sound, means complete cleared.
2) After complete cleared, the blue light is still flashing, you can press other key for other operation, if no operation, the light will be off within 10 seconds and the lock return to standby.

(4) Delete all the Normal users


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “2”
Buzzer "beep --- beep,beep" for one long, two shorts
blue light on
2
Press Master user’s fingerprint or input Master user’s password
Buzzer “beep”, blue light flashing
3
Press“0”
Buzzer “beep”, Blue light on
4
Press“2”
Buzzer " beep du,beep du ---" Blue light on
5
Press Master user’s fingerprint or input Master user’s password
Buzzer repeats "beep, beep, beep ..." till "tick, tick - " (a long & a short), blue light flashing and then off after a few seconds

Note：

1) “Tick~. Tick” a long and a short sound, means complete cleared.
2) After complete cleared, the blue light is still flashing, you can press other key for other operation, if no operation, the light will be off within 10 seconds and the lock return to standby.

4. Modify User

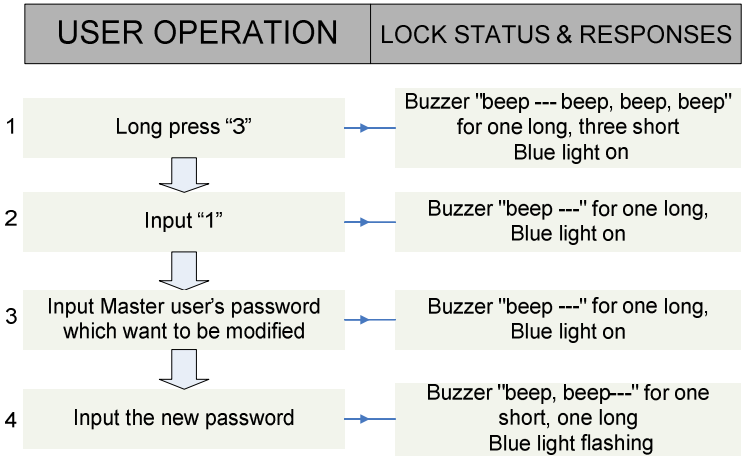
You can...

- modify Master user's fingerprint
- modify Normal user's fingerprint
- modify Master user's password
- modify Normal user's password

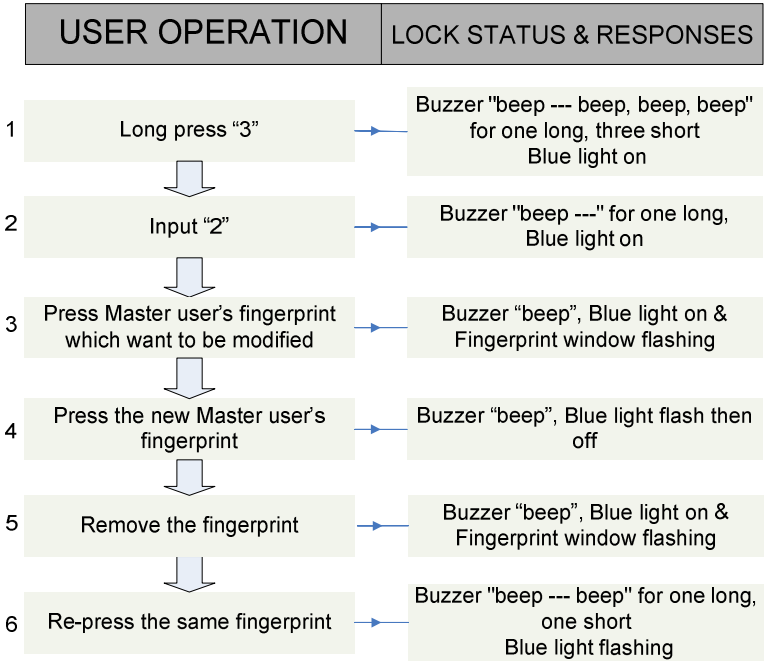
(1) Modify Master user's fingerprint

	USER OPERATION	LOCK STATUS & RESPONSES
1	Long press "3"	Buzzer "beep --- beep, beep, beep" for one long, three short Blue light on
2	Input "1"	Buzzer "beep ---" for one long, Blue light on
3	Press Master user's fingerprint which want to be modified	Buzzer "beep", Blue light on & Fingerprint window flashing
4	Press the new Master user's fingerprint	Buzzer "beep", Blue light flash then off
5	Remove the fingerprint	Buzzer "beep", Blue light on & Fingerprint window flashing
6	Re-press the same fingerprint	Buzzer "beep --- beep" for one long, one short Blue light flashing

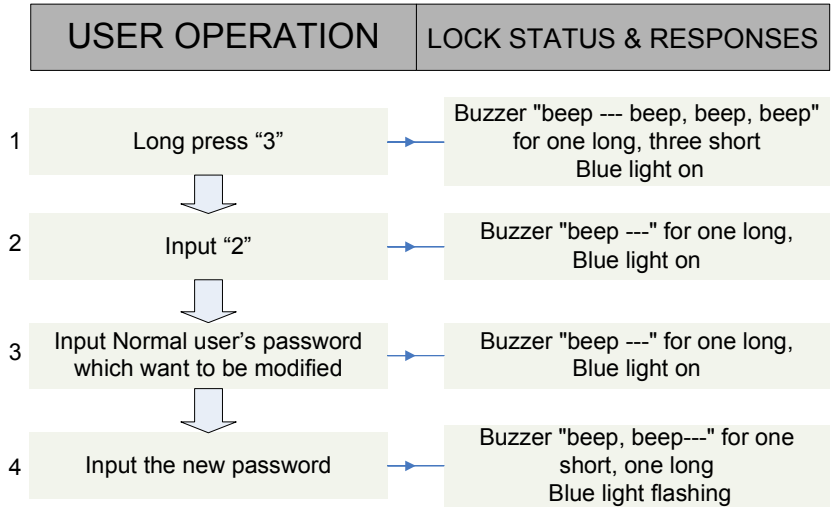
(2) Modify Master user's password


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "3"
Buzzer "beep --- beep, beep, beep" for one long, three short Blue light on
2
Input "1"
Buzzer "beep ---" for one long, Blue light on
3
Input Master user's password which want to be modified
Buzzer "beep ---" for one long, Blue light on
4
Input the new password
Buzzer "beep, beep---" for one short, one long Blue light flashing

(3) Modify Normal user's fingerprint

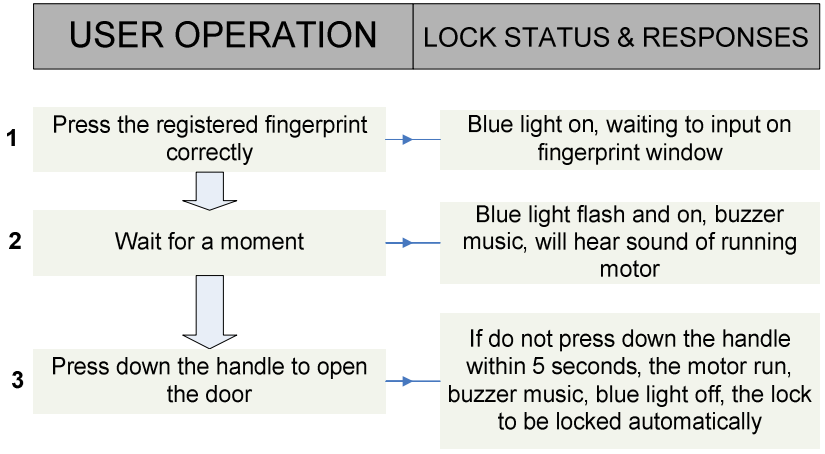

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "3"
Buzzer "beep --- beep, beep, beep" for one long, three short Blue light on
2
Input "2"
Buzzer "beep ---" for one long, Blue light on
3
Press Master user's fingerprint which want to be modified
Buzzer "beep", Blue light on & Fingerprint window flashing
4
Press the new Master user's fingerprint
Buzzer "beep", Blue light flash then off
5
Remove the fingerprint
Buzzer "beep", Blue light on & Fingerprint window flashing
6
Re-press the same fingerprint
Buzzer "beep --- beep" for one long, one short Blue light flashing

(4) Modify Normal user's password

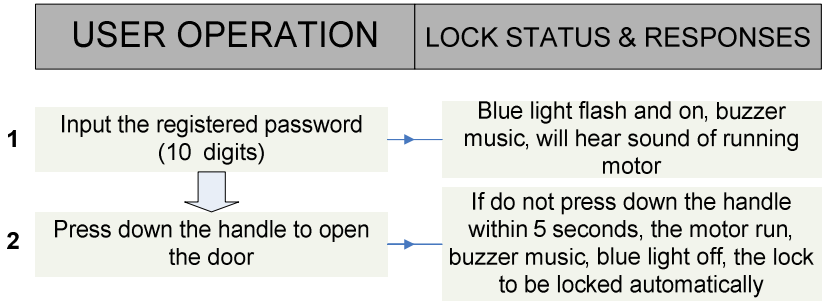

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "3"
Buzzer "beep --- beep, beep, beep" for one long, three short Blue light on
2
Input "2"
Buzzer "beep ---" for one long, Blue light on
3
Input Normal user's password which want to be modified
Buzzer "beep ---" for one long, Blue light on
4
Input the new password
Buzzer "beep, beep---" for one short, one long Blue light flashing

5. Unlock

(1) Unlock by fingerprint


USER OPERATION
LOCK STATUS & RESPONSES
1
Press the registered fingerprint correctly
Blue light on, waiting to input on fingerprint window
2
Wait for a moment
Blue light flash and on, buzzer music, will hear sound of running motor
3
Press down the handle to open the door
If do not press down the handle within 5 seconds, the motor run, buzzer music, blue light off, the lock to be locked automatically

(2) Unlock by password


USER OPERATION
LOCK STATUS & RESPONSES
1
Input the registered password (10 digits)
Blue light flash and on, buzzer music, will hear sound of running motor
2
Press down the handle to open the door
If do not press down the handle within 5 seconds, the motor run, buzzer music, blue light off, the lock to be locked automatically

6. Setting

(1) Always open

Input the registered password or fingerprint, blue light one and hear the sound of running motor, please DO NOT press down the handle, but press 【0】for 3 seconds till hear “beep-beep-” from the buzzer, after the blue LED off, please release the 【0】button.

(2) Cancel “Always open”

To cancel “always open”, please unlock the lock normally by registered password or fingerprint. (If you do not press 【0】after unlock, the lock will be locked automaticlly)

(3) Deadbolt

Press the deadbolt button on the back panel, red light on means the lock is in deadbolt state

(4) Cancel Deadbolt

(4.1) If the lock is in deadbolt state, repress the deadbolt button, blue light on means deadbolt state is canceled.

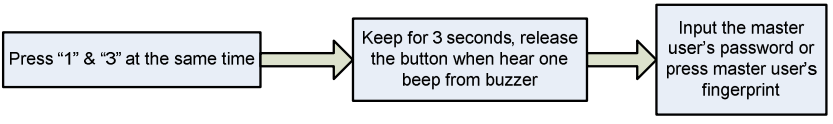
(4.2) Press down the inside handle, blue light on means deadbolt state is canceled.

(4.3) Long press 【3】on standby state.

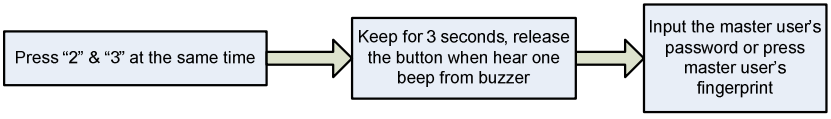
(5) Forced to lock

Long press 【0】 &【1】 at the same time

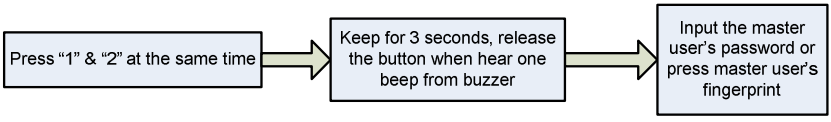
(6) Turn on the Switch Signal unlock function


Press “1” & “3” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint

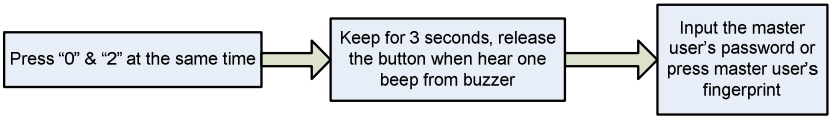
(7) Turn off the Switch Signal unlock function


Press “2” & “3” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint

(8) Turn on the serial port communication function

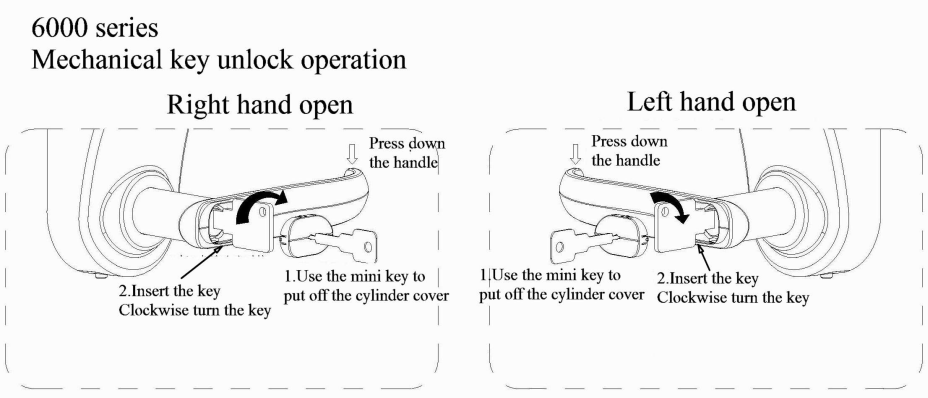

Press “1” & “2” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint

(9) Turn off the serial port communication function


Press “0” & “2” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint

7. Mechanical key

(1)Unlock by Mechanical key



(2)Lock by Mechanical key

When lock by mechanical key, please make sure the key is in horizontal direction, and then remove the key and put on the cylinder cover.

8. Operation Tips Summary

1) Valid key tone: "beep" (one short)
2) Invalid key tone: "beep, beep " (two short)
3) Correct tone: "beep" (one short)
4) Error tone: "beep, beep, beep, beep " (four short)
5) Open the door successfully tones: the sound of music
6) Lock the door successfully tones: the sound of music
7) Continuous operation start："beep" sound for a long, and then…
   a) Add users： "beep---, beep" (one long one short)
   b) Delete users: "beep---, beep, beep" (one long two short)
   c) Modify users："beep---, beep, beep, beep" (one long three short)
8) Important stage completed："beep---" sound for a long
9) Operation completed " beep, beep--- " (one short one long)
10) Low Voltage: continuous rapid "beep, beep, beep "
11) Warning tone: "beep-du, beep-du…" (continuous short sound)
12) Waiting tone: continuous repeated short tones
13) Alarm tone: long-beep, repeated 4 times, sounds similar as police car alarm.
14) Deadbolt：Red and blue light flash alternately

III. ADVANCED

The fingerprint lock not only supports 110 users (5+50 fingerprints; 5+50 passwords), but also supports extended 120 users.

There is one ID for each extended user, so we call the 120 extended users as **ID users.** For the ID user, which can be a “password”, or could be a “fingerprint”, or “password + fingerprint”.

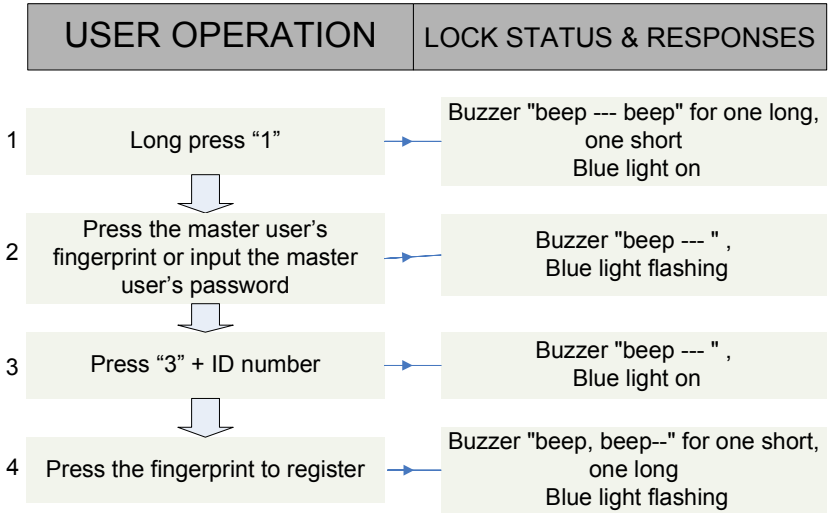
If you have the following requirements, you can choose **ID users.**

1. More than 110users. (need to add additional users)
2. The staff mobility is frequent or need to manage each user separately.
3. Need to unlock by “password + fingerprint”

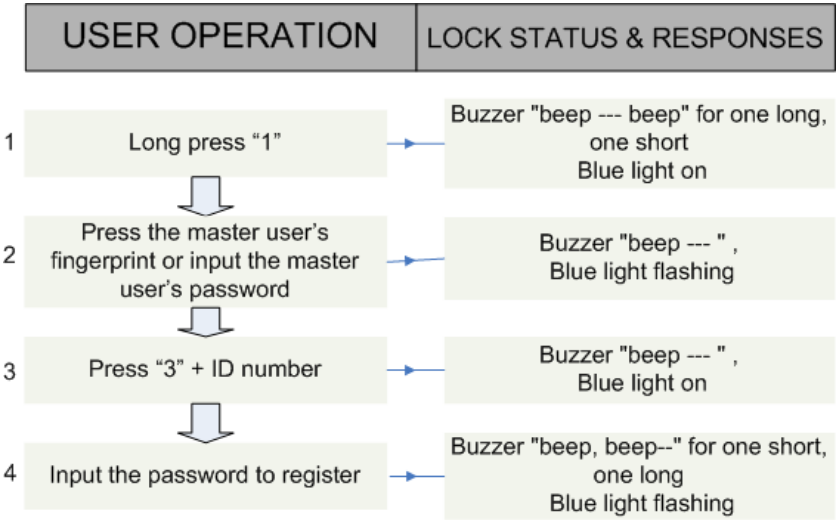
***In case the lock is used in the normal family, we recommend the users to set Master user and Normal user only, it can be enough for use.*

a) Add ID user

i. Add ID user’s fingerprint

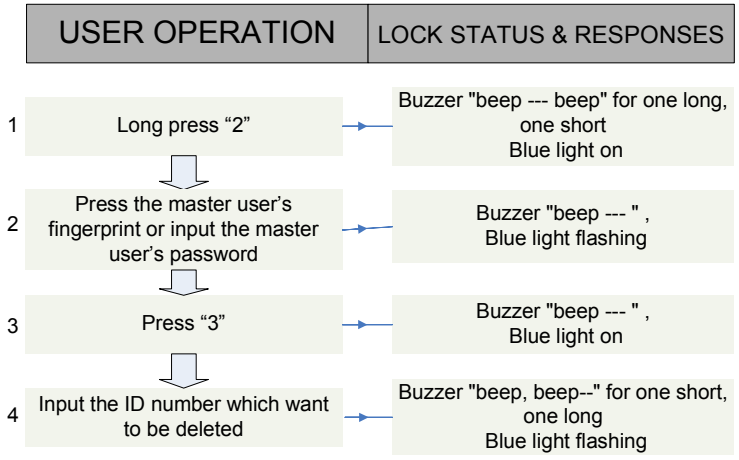

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “1”
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press the master user’s fingerprint or input the master user’s password
Buzzer "beep --- " ,
Blue light flashing
3
Press “3” + ID number
Buzzer "beep --- " ,
Blue light on
4
Press the fingerprint to register
Buzzer "beep, beep--" for one short, one long
Blue light flashing

ii. Add ID user's password

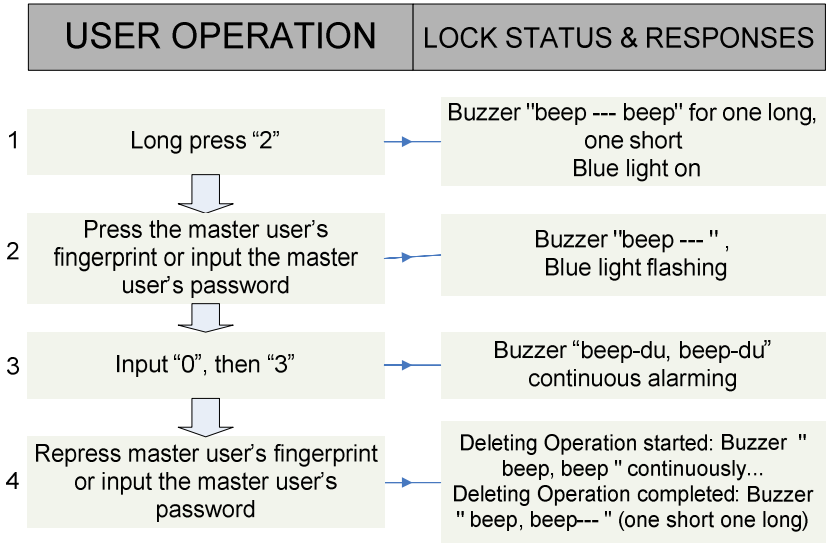

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "1"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press the master user's fingerprint or input the master user's password
Buzzer "beep --- " ,
Blue light flashing
3
Press "3" + ID number
Buzzer "beep --- " ,
Blue light on
4
Input the password to register
Buzzer "beep, beep--" for one short, one long
Blue light flashing

b) Delete ID user

i. Delete single ID user

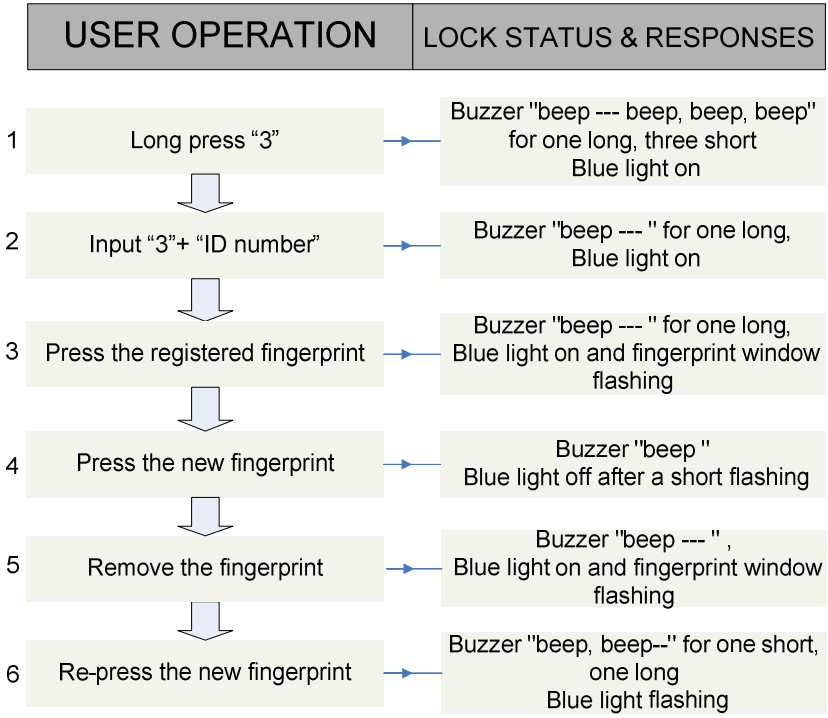

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "2"
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press the master user's fingerprint or input the master user's password
Buzzer "beep --- " ,
Blue light flashing
3
Press "3"
Buzzer "beep --- " ,
Blue light on
4
Input the ID number which want to be deleted
Buzzer "beep, beep--" for one short, one long
Blue light flashing

ii. Delete all the ID users

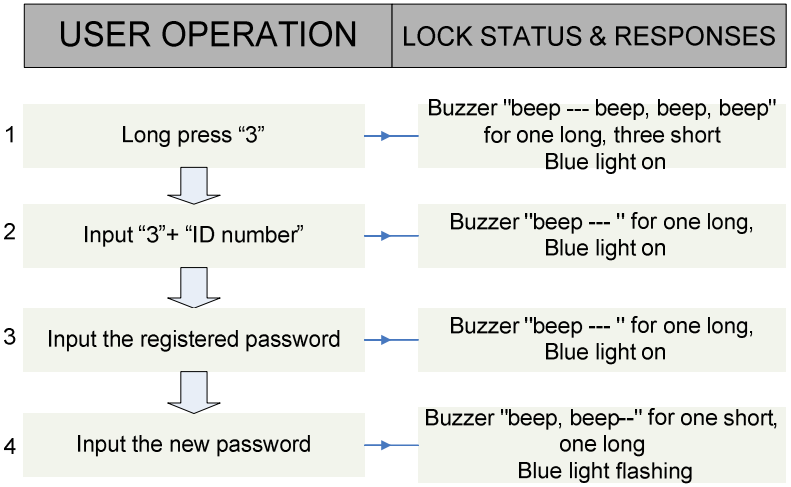

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “2”
Buzzer "beep --- beep" for one long, one short
Blue light on
2
Press the master user’s fingerprint or input the master user’s password
Buzzer "beep --- " ,
Blue light flashing
3
Input “0”, then “3”
Buzzer “beep-du, beep-du” continuous alarming
4
Repress master user’s fingerprint or input the master user’s password
Deleting Operation started: Buzzer " beep, beep " continuously...
Deleting Operation completed: Buzzer " beep, beep--- " (one short one long)

c) Modify ID user

i. Modify ID user's fingerprint


USER OPERATION
LOCK STATUS & RESPONSES
1
Long press "3"
Buzzer "beep --- beep, beep, beep" for one long, three short Blue light on
2
Input "3"+ "ID number"
Buzzer "beep --- " for one long, Blue light on
3
Press the registered fingerprint
Buzzer "beep --- " for one long, Blue light on and fingerprint window flashing
4
Press the new fingerprint
Buzzer "beep " Blue light off after a short flashing
5
Remove the fingerprint
Buzzer "beep --- " , Blue light on and fingerprint window flashing
6
Re-press the new fingerprint
Buzzer "beep, beep--" for one short, one long Blue light flashing

ii. Modify ID user's password

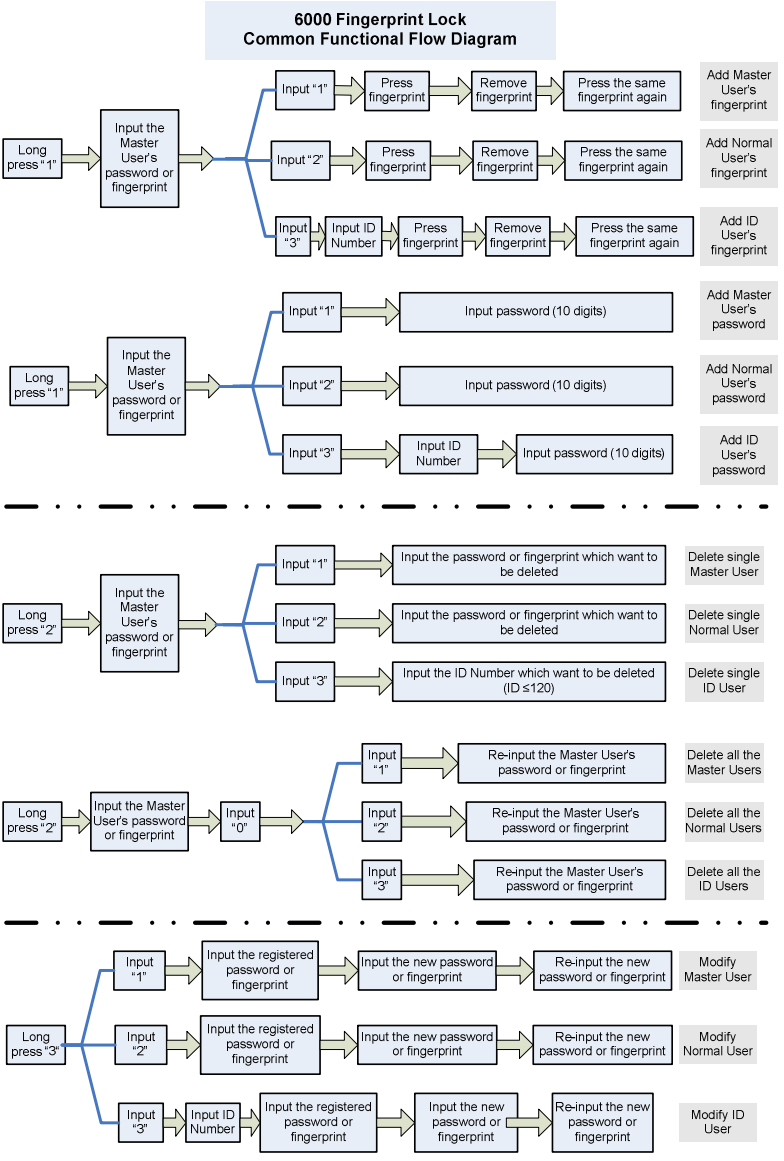

USER OPERATION
LOCK STATUS & RESPONSES
1
Long press “3”
Buzzer "beep --- beep, beep, beep" for one long, three short
Blue light on
2
Input “3”+ “ID number”
Buzzer "beep --- " for one long,
Blue light on
3
Input the registered password
Buzzer "beep --- " for one long,
Blue light on
4
Input the new password
Buzzer "beep, beep--" for one short, one long
Blue light flashing

d) ID number coding rules and code table

No.	Code/ ID Number	No.	Code/ ID Number	No.	Code/ ID Number	No.	Code/ ID Number
1	0001	31	0133	61	0331	91	1123
2	0002	32	0200	62	0332	92	1130
3	0003	33	0201	63	0333	93	1131
4	0010	34	0202	64	1000	94	1132
5	0011	35	0203	65	1001	95	1133
6	0012	36	0210	66	1002	96	1200
7	0013	37	0211	67	1003	97	1201
8	0020	38	0212	68	1010	98	1202
9	0021	39	0213	69	1011	99	1203
10	0022	40	0220	70	1012	100	1210
11	0023	41	0221	71	1013	101	1211
12	0030	42	0222	72	1020	102	1212
13	0031	43	0223	73	1021	103	1213
14	0032	44	0230	74	1022	104	1220
15	0033	45	0231	75	1023	105	1221
16	0100	46	0232	76	1030	106	1222
17	0101	47	0233	77	1031	107	1223
18	0102	48	0300	78	1032	108	1230
19	0103	49	0301	79	1033	109	1231
20	0110	50	0302	80	1100	110	1232
21	0111	51	0303	81	1101	111	1233
22	0112	52	0310	82	1102	112	1300
23	0113	53	0311	83	1103	113	1301
24	0120	54	0312	84	1110	114	1302
25	0121	55	0313	85	1111	115	1303
26	0122	56	0320	86	1112	116	1310
27	0123	57	0321	87	1113	117	1311
28	0130	58	0322	88	1120	118	1312
29	0131	59	0323	89	1121	119	1313
30	0132	60	0330	90	1122	120	1320

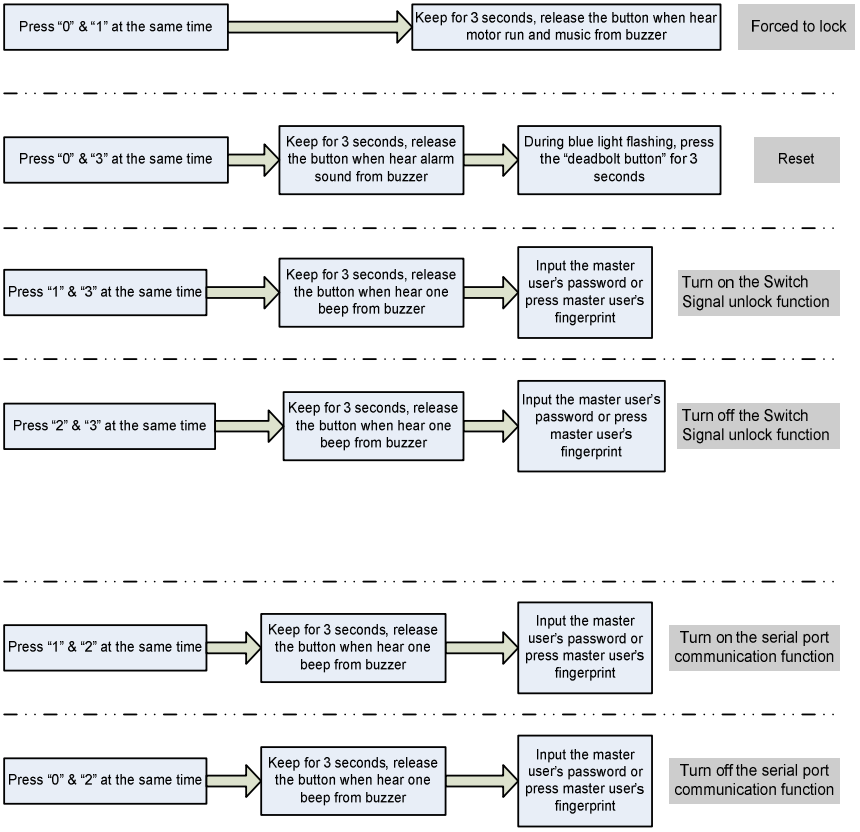
IV. Flow Diagram

（1） Common Functional Flow Diagram


6000 Fingerprint Lock
Common Functional Flow Diagram
Long press "1"
Input the Master User's password or fingerprint
Input "1"
Press fingerprint
Remove fingerprint
Press the same fingerprint again
Add Master User's fingerprint
Input "2"
Press fingerprint
Remove fingerprint
Press the same fingerprint again
Add Normal User's fingerprint
Input "3"
Input ID Number
Press fingerprint
Remove fingerprint
Press the same fingerprint again
Add ID User's fingerprint
Long press "1"
Input the Master User's password or fingerprint
Input "1"
Input password (10 digits)
Add Master User's password
Input "2"
Input password (10 digits)
Add Normal User's password
Input "3"
Input ID Number
Input password (10 digits)
Add ID User's password
Long press "2"
Input the Master User's password or fingerprint
Input "1"
Input the password or fingerprint which want to be deleted
Delete single Master User
Input "2"
Input the password or fingerprint which want to be deleted
Delete single Normal User
Input "3"
Input the ID Number which want to be deleted (ID ≤120)
Delete single ID User
Long press "2"
Input the Master User's password or fingerprint
Input "0"
Input "1"
Re-input the Master User's password or fingerprint
Delete all the Master Users
Input "2"
Re-input the Master User's password or fingerprint
Delete all the Normal Users
Input "3"
Re-input the Master User's password or fingerprint
Delete all the ID Users
Long press "3"
Input "1"
Input the registered password or fingerprint
Input the new password or fingerprint
Re-input the new password or fingerprint
Modify Master User
Input "2"
Input the registered password or fingerprint
Input the new password or fingerprint
Re-input the new password or fingerprint
Modify Normal User
Input "3"
Input ID Number
Input the registered password or fingerprint
Input the new password or fingerprint
Re-input the new password or fingerprint
Modify ID User

（2） Special Functional Flow Diagram

6000 Fingerprint Lock
Special Functional Flow Diagram


Press “0” & “1” at the same time
Keep for 3 seconds, release the button when hear motor run and music from buzzer
Forced to lock
Press “0” & “3” at the same time
Keep for 3 seconds, release the button when hear alarm sound from buzzer
During blue light flashing, press the “deadbolt button” for 3 seconds
Reset
Press “1” & “3” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint
Turn on the Switch Signal unlock function
Press “2” & “3” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint
Turn off the Switch Signal unlock function
Press “1” & “2” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint
Turn on the serial port communication function
Press “0” & “2” at the same time
Keep for 3 seconds, release the button when hear one beep from buzzer
Input the master user’s password or press master user’s fingerprint
Turn off the serial port communication function

V. MALFUNCTION & SOLUTION

Malfunction	Reason	Solution
Press the fingerprint, but the lock does not respond	The fingerprint has been put on the window for a long time; the lock has been locked automatically.	1. Input “0”, then press the fingerprint. 2. Two quick tap with your fingers on the window, then press the fingerprint.
Press the fingerprint, Red light on, Buzzer “beep” (4 short).	1. unregistered fingerprint 2.deleted fingerprint	Please press the registered fingerprint
Press the registered fingerprint, Red light on, Buzzer “beep” (4 short).	1. Broken fingerprint 2. Fingerprint’s press positional deviation is too large	To press the fingerprint as far as possible as the same position and direction of the finger pressing when register
Input password or fingerprint, the light flash on blue and red alternately	The lock is deadbolted	Cancel the deadbolt situation
Input password or fingerprint, Red light flashing, Buzzer “beep” (4 short).	Unregistered fingerprint or password has been input too much time, the lock has been locked temporarily	Wait a while until the lock exit locked situation.
When unlock, the buzzer sound with rapid and short “beep”.	Battery low voltage	Replace the new batteries
Not allow to add fingerprint	1. The verified user is not the Maser user 2. Fingerprints are full.	1. Verified with the Master User 2. Delete the useless fingerprint.
Not allow to add password	1. The verified user is not the Maser user 2. Passwords are full.	1. Verified with the Master User 2. Delete the useless password.

Malfunction	Reason	Solution
Verify the fingerprint failed frequently	1. Finger is too dirty 2. Finger is too dry 3. Finger is too wet 4. Fingerprint window is too dirty 5. Ambient light is too strong 6. The finger does not press correctly	1.Clean the finger 2. Wet the finger 3. Dry the finger 4. Clean the fingerprint window 5. Remove the light source or block the light 6. Press the finger correctly